## Approved For Release 2006/12/06: CIA-RDP78B04770A002300010004-8-2/0/

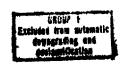
NPIC/TDS/D-761-67 23 March 1967

MEMORANDUM FOR: Chief, Exploitation Systems Branch	
SUBJECT : Evaluation of Twin Light Source Table with Measuring Stage	25 <b>X</b> 1
1. The subject project is an extension of the original Twin Light Source Table design built by instrument are the following.	25 <b>X</b> 1
A. The design was specifically implemented to include the Wide Span Rhomboid Attachment for the Zoom 70 as well as the other microstereoscopes that the original instrument accommodated.	25X1
B. A scanning stage with a measuring capability was included in the design.	
2. The philosophy of this project was to configure the light table in an extremely compact envelope, while providing a large illuminated viewing area (two 6x6 inch areas). has been very successful in keeping the size to an absolute minimum. The thickness of the light box and scannin stage is extremely small considering all the components that utilize that volume. As a result of this limitation in size there might be some objection to the operation or the smoothness of the scanning stage. To improve the scanning uniformity, the size of the translating mechanism would have to be increased, thereby increasing the eyepoint of the microstereoscope Possibly only a slight increase in the rigidity of these components would substantially increase the performance. This compromise will be explored if production versions are required.	e.
3. The mechanism to release the stage from the screw drive must be improved in production versions. It was a last minute addition and is adequate at best.	

4. The accuracy of the measuring stage is shown in the attached figure

and taking the pointing error into account the instrument certainly meets the specification (least count to .0001 foot and accuracy of .0001 ft/inch.)

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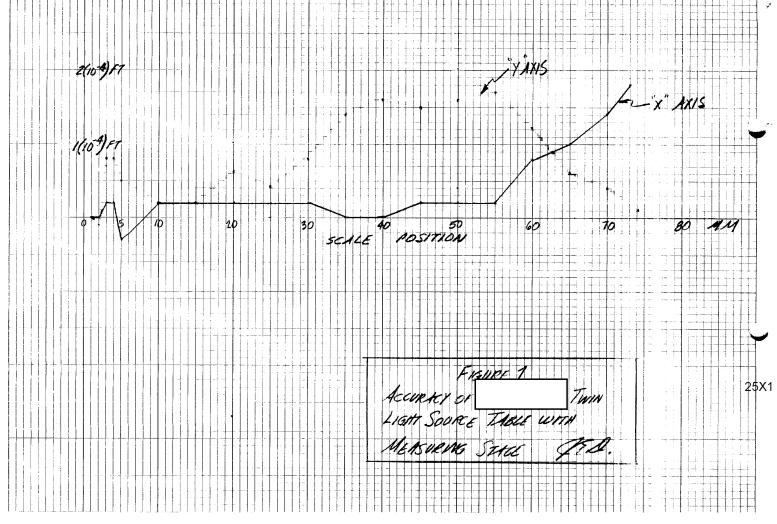
## Approved For Release 2006/12/06 : CIA-RDP78B04770A002300010004-3

SUBJECT:	Evaluation of Stage	Twin Light Source Table with Measuring	2581
5. 3500 ft-1	The light source is e	xtremely uniform and bright (approximately has virtually no flicker.	
versions	is the mounting of the	e that should be modified on the production is microstereoscope support slide to the main there is a slight flexing in the housing pration in the optical path.	ı in
7.	Overall the contracto	or performed above average on this fixed pr	ice
effort.			
		Development Staff, TDS	25X1
Distribu Orig 3	tion: - Addressee - TDS/DS		
NPIC/TDS	s/Ds:	(23 Mar. 67)	25X1

Park Property

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	B-Pre Cost
CAVE THE FOLLOWING ESTUMATE Le	
PRODUCTION OF TWIN LIGHT SOURCE LIGHT	•
ABLE UT MEASURING STATE	
	25X1
Service of the servic	